

Canon

SPEEDLITE
320EX



English

Français

Español

INSTRUCTION MANUAL
MODE D'EMPLOI
MANUAL DE INSTRUCCIONES

Thank you for purchasing a Canon product.

The Canon Speedlite 320EX is a multi-feature flash unit for Canon EOS cameras. It works automatically with E-TTL II and E-TTL autoflash systems. It can be used as an on-camera flash that attaches to the hot shoe of the camera or as part of a wireless flash system used at a distance from the camera. It is also equipped with an LED light for movie shooting.

- **Read this instruction manual while also referring to your camera's instruction manual.**

Before using the Speedlite, read this instruction manual and your camera's instruction manual to familiarize yourself with the Speedlite operations.

Using the Speedlite with a Camera

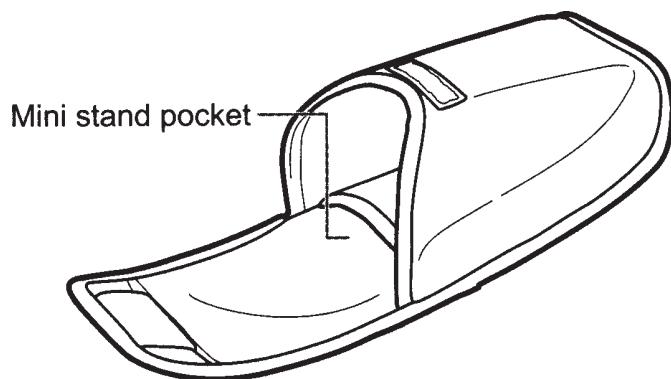
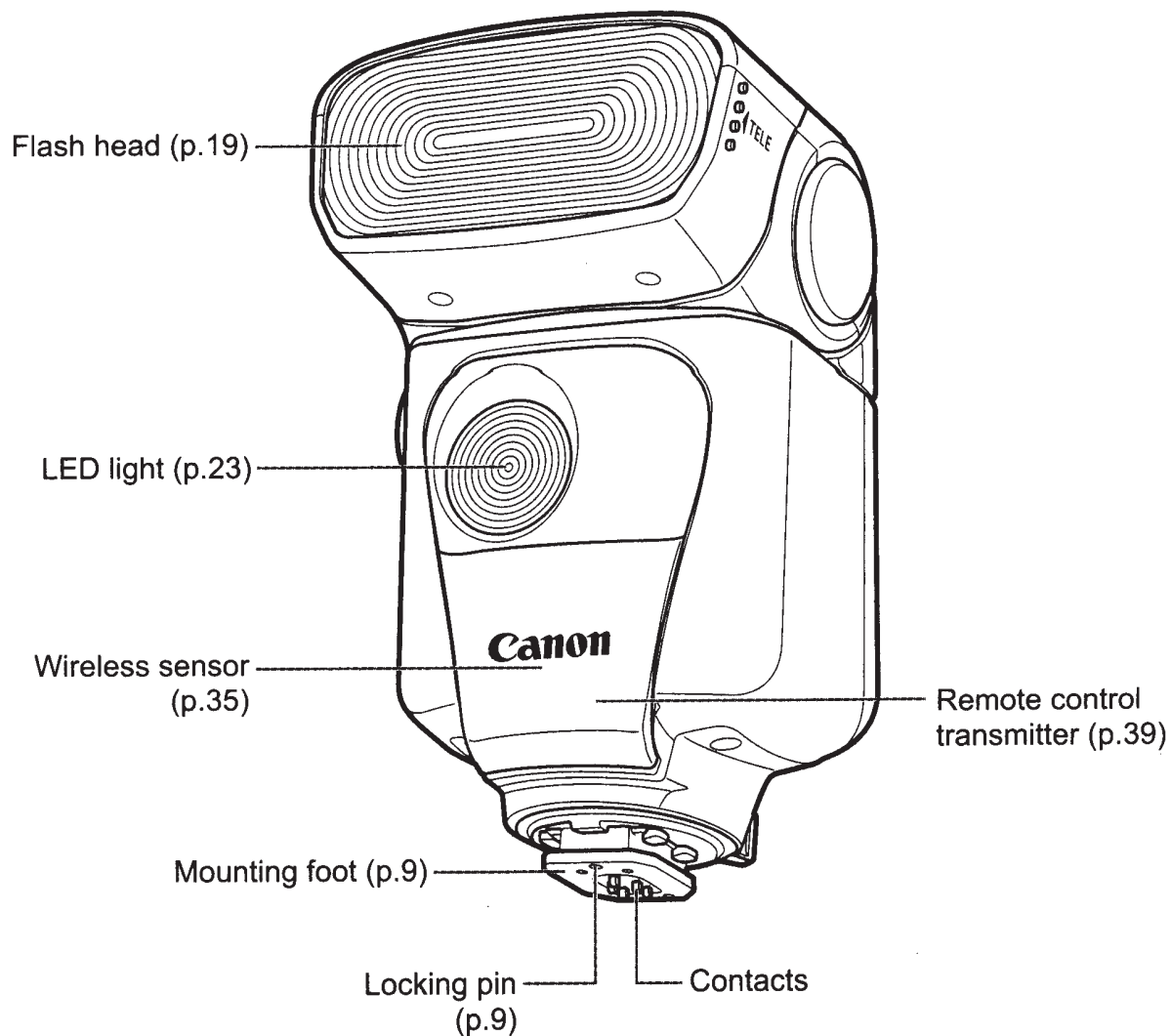
- **Using with an EOS digital camera**
 - You can use the Speedlite for easy autoflash shooting just like a camera's built-in flash.
- **Using with an EOS film camera**
 - When using with an EOS film camera with E-TTL II and E-TTL autoflash systems, you can use the Speedlite for easy autoflash shooting just like a camera's built-in flash.
 - **This flash unit cannot be used with an EOS film camera with TTL autoflash system.**
- **Compatible camera types**

For convenience, in the camera's instruction manual, cameras that support E-TTL II and E-TTL autoflash systems are referred to as **A-type cameras**.

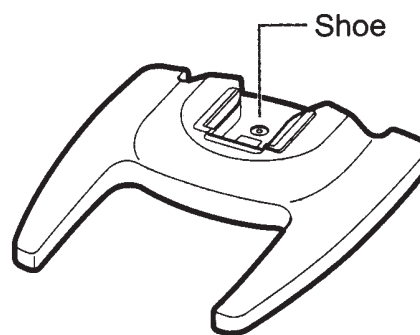
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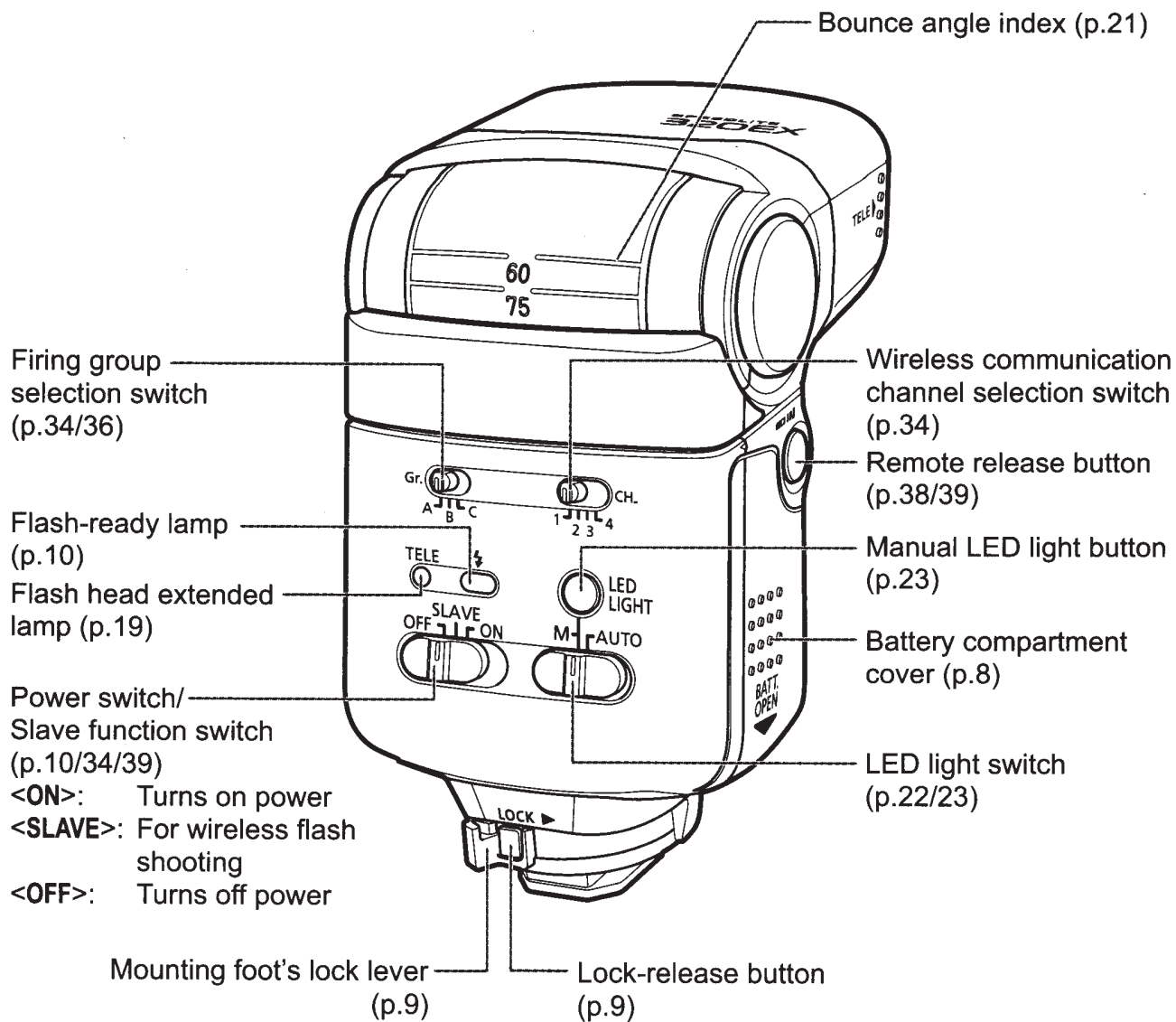
Nomenclature



Case




**320EX mini stand
(p.35)**



Conventions Used in this Manual

Icons in this Manual

16: Indicates that the respective function remains active for 16 sec. after you let go of the button.

☆: If shown on the upper right of the page, it indicates that the function is available only in the Creative Zone modes of the camera.

(p.**): Reference page numbers for more information.

: Warning to prevent shooting problems.

: Supplemental information.

Basic Assumptions

- The operation procedures in this instruction manual assume that both the camera and Speedlite's power switches are already set to <ON>.
- Icons used in the text to indicate the respective buttons, dials, and settings match the same icons found on the camera and Speedlite.
- The operation procedures assume that the menu and Custom Functions of the camera and the Custom Functions of the Speedlite are at their default settings.
- All figures are based on the use of AA/LR6 alkaline batteries and Canon's testing standards.

1

Getting Started and Basic Operations

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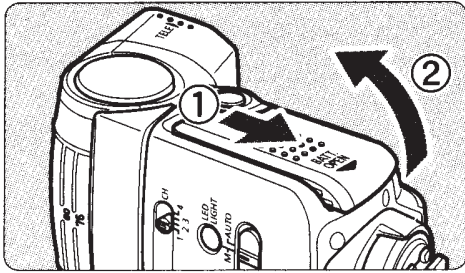


Cautions for firing continuous flashes

- To avoid overheating and degrading the flash head, do not fire more than 20 flashes continuously. After 20 continuous flashes, allow a rest time of at least 10 min.
- If you fire more than 20 continuous flashes and then fire more flashes in short intervals, the inner overheating prevention function may be activated and make the recycling time about 8 to 20 sec. If this occurs, allow a rest time of about 15 min. and the flash will then return to normal.

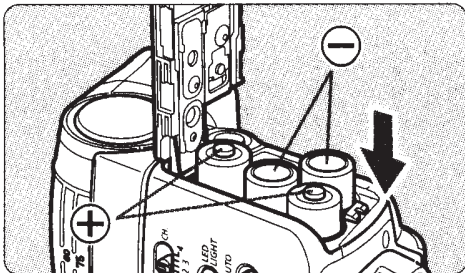
Installing the Batteries

Install four AA/LR6 batteries.



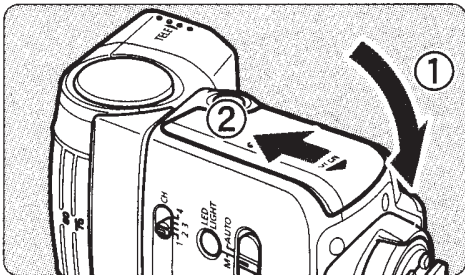
1 Open the cover.

- Slide the battery compartment cover as shown by the arrow and open it.



2 Install the batteries.

- Make sure the + and – battery contacts are correctly oriented as shown in the battery compartment.



3 Close the cover.

- Close the battery compartment cover and slide it as shown by the arrow.

Recycling Time and Flash Count

Recycling Time (Approx.)	Flash Count (Approx.)
0.1 - 2.3 sec.	180 - 1000

- Based on new AA/LR6 alkaline batteries and Canon's testing standards.

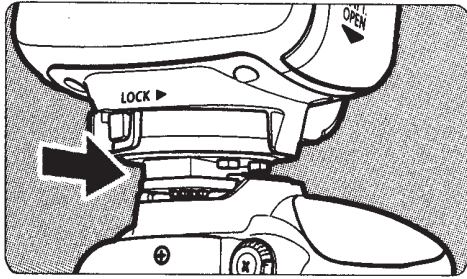


- Using AA/LR6 batteries other than the alkaline type may cause improper battery contact due to the irregular shape of the battery contacts.
- If you change the batteries after firing many flashes continuously, be aware that the batteries might be hot.



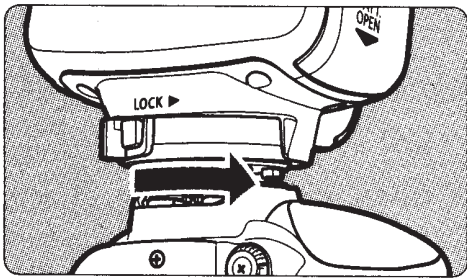
- Use a new set of four batteries of the same brand. When replacing the batteries, replace all four at one time.
- AA/LR6 rechargeable Ni-MH or lithium batteries can also be used.

Attaching and Detaching the Flash



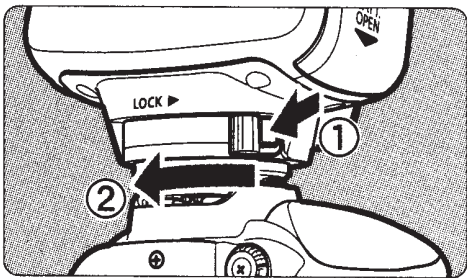
1 Attach the Speedlite.

- Insert the Speedlite's mounting foot into the camera's hot shoe all the way. (The mounting foot will protrude slightly from the hot shoe.)



2 Secure the Speedlite.

- On the mounting foot, slide the lock lever to the right.
 - ▶ When the lock lever clicks in place, it will be locked.



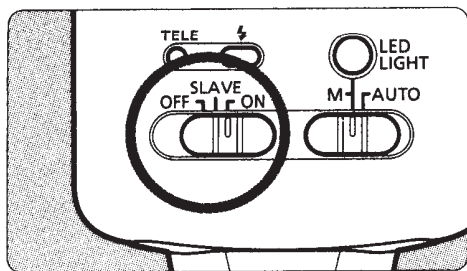
3 Detach the Speedlite.

- While pressing the lock-release button, slide the lock lever to the left and detach the Speedlite.



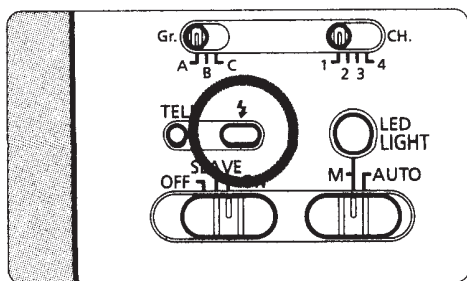
Before attaching or detaching the Speedlite, be sure to turn off the Speedlite.

Turning on the Power Switch



1 Set the power switch to <ON>.

► The flash recycling starts.



2 Check that the flash is ready.

- When the flash-ready lamp blinks and then lights in red, the flash is ready to fire (fully charged).

About Quick Flash

The flash-ready lamp blinks when Quick Flash is ready even before the flash is fully charged.

You can use the flash to take a picture at that time; however, the flash output is only half or one-third of the flash's full charge. This is useful for taking pictures of subjects very close to the flash.

About Auto Power Off

To save battery power, the power will turn off automatically after 90 seconds of idle use. To turn on the Speedlite again, press the camera's shutter button halfway.



- The time until auto power off takes effect may increase when firing continuous flashes.
- Auto power off can also be disabled (p.32).

Fully Automatic Flash Shooting

Readying the Camera

When you set the camera's shooting mode to <P> (Program AE) or Full Auto, you can shoot in E-TTL II/E-TTL fully automatic flash mode.

Cameras with external flash function settings


External flash func. setting	
Flash mode	E-TTL II
Shutter sync.	1st curtain
exp. comp.	-3..2..1..0..1..2..3
E-TTL II meter.	Evaluative
INFO Clear flash settings	

- Press the camera <MENU> button and select [**Flash control**] or [**External Speedlite control**].
- Select [**External flash func. setting**] and set [**Flash mode**] to [**E-TTL II**].

Cameras without external flash function settings

- This operation is not required on EOS film cameras or EOS digital cameras without the [**Flash control**] or [**External Speedlite control**] menu functions because the flash mode cannot be changed on these camera models.

 The Speedlite does not fire when the LED light (p.22) is turned on.

 "Full Auto" refers to <A+>, <□>, and <CA> shooting modes.

Taking the Picture



1

Focus the subject.

- Press the shutter button halfway to focus.
- ▶ The shutter speed and aperture will be set as displayed in the viewfinder.
- Check that <⚡> is lit in the viewfinder.

2

Take the picture.

- ▶ When you press the shutter button completely, the flash will fire and the picture will be taken.



After taking the picture, check the image on the LCD monitor of the camera. If the light from the flash did not reach the subject, move closer to the subject and take the picture again. You can also increase the ISO speed when using a digital camera.

Flash Shooting in Each Camera Mode

With the flash mode set to E-TTL II/E-TTL autoflash, just set the camera's shooting mode to <**Tv**> (Shutter priority AE), <**Av**> (Aperture priority AE), or <**M**> (Manual exposure) and you can use E-TTL II/E-TTL autoflash.

On EOS digital cameras without the [**Flash control**] menu function or EOS film cameras, E-TTL II/E-TTL autoflash is set automatically.

Tv: Shutter Priority AE



Select this mode when you want to set the shutter speed manually.

The camera will then automatically set the aperture matching the shutter speed to obtain a standard exposure.

- If the aperture display blinks, it means that the background exposure will be underexposed or overexposed. Adjust the shutter speed until the aperture display stops blinking.



Av: Aperture Priority AE

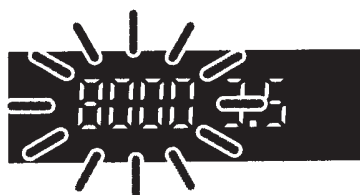
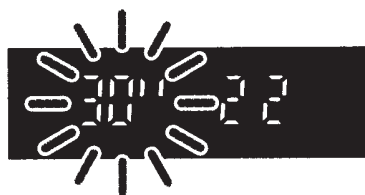


Select this mode when you want to set the aperture manually.

The camera will then automatically set the shutter speed matching the aperture to obtain a standard exposure.

If the background is dark, such as in a night scene, a slow sync speed will be used to obtain a standard exposure of both the main subject and background. Standard exposure of the main subject is obtained with the flash, while a standard exposure of the background is obtained with a slow shutter speed.

- If the shutter speed display blinks, it means that the background exposure will be underexposed or overexposed. Adjust the aperture until the shutter speed display stops blinking.



M: Manual Exposure



Select this mode if you want to set both the shutter speed and aperture manually. Standard exposure of the main subject is obtained with the flash. The exposure of the background is obtained with the shutter speed and aperture combination you set.

DEP: Depth-of-field AE, A-DEP: Auto Depth-of-field AE

- The result will be the same as using <P> (Program AE).

Flash Sync Speeds and Apertures Used

	Shutter Speed	Aperture Value
Full Auto, <P>	Set automatically (1/X sec. - 1/60 sec.)	Automatic
Tv	Set manually (1/X sec. - 30 sec.)	Automatic
Av	Set automatically (1/X sec. - 30 sec.)	Manual
M	Set manually (1/X sec. - 30 sec., Bulb)	Manual

- 1/X sec. is the camera's maximum flash sync speed.

Function for Transmitting the Color Temperature Information

This function optimizes the white balance during flash shooting by transmitting the color temperature information to the EOS digital camera when the flash fires. When you set the camera white balance to <AWB> or <⚡>, the function is enabled automatically.

See the Specifications in the camera's instruction manual for compatible models.



2

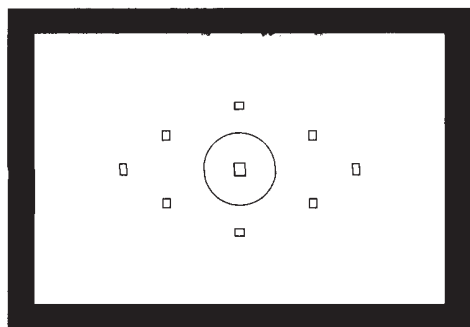
Using Flash

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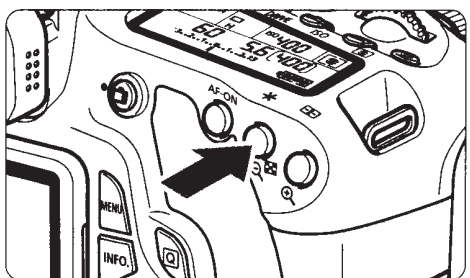
✱FE Lock ☆

FE (flash exposure) lock locks the correct flash exposure setting for any part of the scene.

With the flash mode set to E-TTL II/E-TTL autoflash, press the camera's <✱> button to enable FE lock. On some cameras, press the <M-Fn> or <FEL> button.



1 Focus the subject.



2 Press the <✱> button. (⌚16)

- Aim the center of the viewfinder over the subject and press the <✱> button.
- ▶ The Speedlite fires a preflash, and the required flash output is retained in memory.
- ▶ “FEL” will be displayed in the viewfinder for approx. 0.5 sec.
- Each time you press the <✱> button, a preflash will be fired and a new flash exposure reading will be locked.

3 Take the picture.

- Compose the picture and press the shutter button completely.
- ▶ The flash fires when the picture is taken.

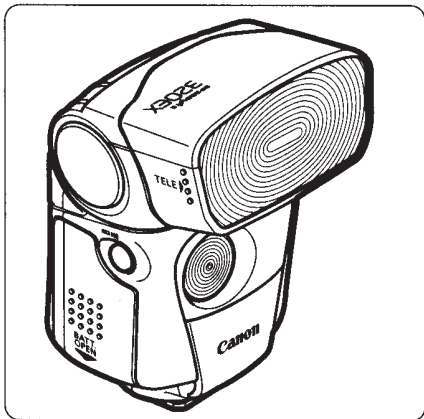
- ⚠ ● If the subject is too far away and underexposure may result, the <⚡> icon will blink in the viewfinder. Move closer to the subject and perform FE lock again. You can also increase the ISO speed and perform FE lock again when using a digital camera.
- If the target subject is too small in the viewfinder, the FE lock might not be very effective.

Switching the Flash Coverage

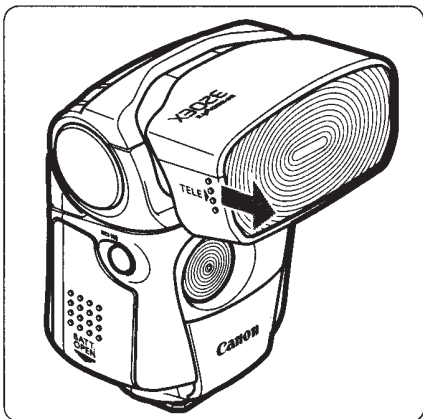
The flash head can be extended or retracted manually to match the lens focal length. As the focal length of EF lenses and EF-S lenses differs, extend or retract the flash head while referring to the table below (the flash head position in relationship to the lens focal length).

Flash head position

Normal position



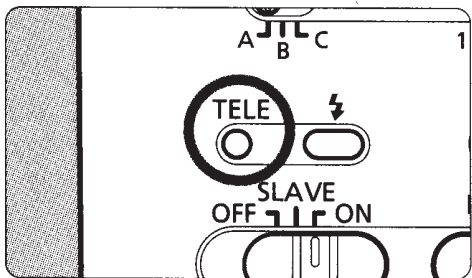
Extended position



Guide number 24/79 (ISO 100 in m/ft.) Guide number 32/105 (ISO 100 in m/ft.)

Flash Head Position and Lens Focal Length

Flash Head Position		Normal Position	Extended Position
Lens Focal Length	EF-S Lens	15mm or longer	32mm or longer
	EF Lens	24mm or longer	50mm or longer



- When using an EF-S lens with a focal length of 32mm or longer or an EF lens with a focal length of 50mm or longer, extend the flash head for greater flash output and longer flash range.
- When the flash head is extended, the <TELE> lamp on the Speedlite lights or blinks.
- When the <TELE> lamp blinks, retract the flash head to its normal position. If you take a picture while the <TELE> lamp is blinking, the periphery of the picture may appear dark.

Flash Shooting Range Guidelines

When using EF-S 18-55mm f/3.5-5.6 IS [approx. m / ft.]

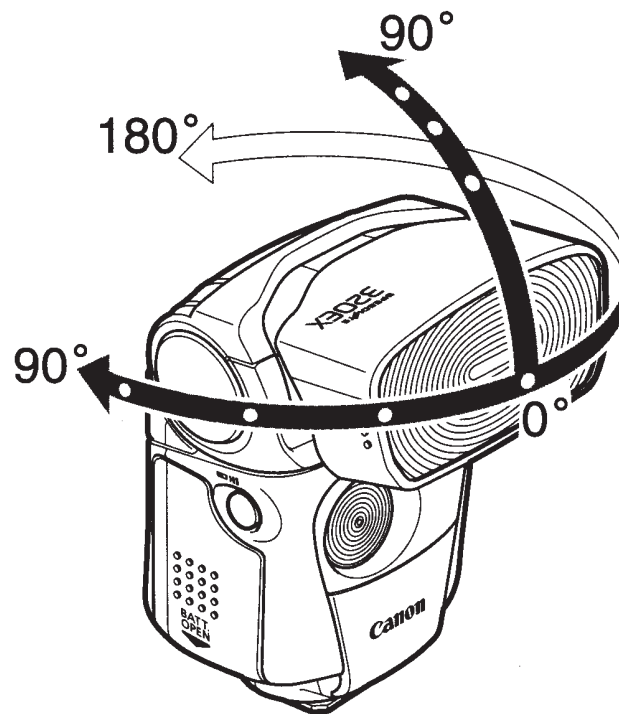
ISO	Normal Position		Extended Position	
	18mm	55mm	18mm	55mm
100	1 - 6.9 / 3.3 - 22.6	1 - 4.3 / 3.3 - 14.1	-	1 - 5.7 / 3.3 - 18.7
200	1 - 9.7 / 3.3 - 31.8	1 - 6.1 / 3.3 - 20	-	1 - 8.1 / 3.3 - 26.6
400	1 - 13.7 / 3.3 - 44.9	1 - 8.6 / 3.3 - 28.2	-	1 - 11.4 / 3.3 - 37.4
800	1.2 - 19.4 / 3.9 - 63.6	1 - 12.1 / 3.3 - 39.7	-	1 - 16.2 / 3.3 - 53.1
1600	1.7 - 27.4 / 5.6 - 89.9	1 - 17.1 / 3.3 - 56.1	-	1 - 22.9 / 3.3 - 75.1
3200	2.4 - 38.8 / 7.9 - 127.3	1.5 - 24.2 / 4.9 - 79.4	-	1.4 - 32.3 / 4.6 - 106
6400	3.4 - 54.9 / 11.2 - 180.1	2.1 - 34.3 / 6.9 - 112.5	-	2 - 45.7 / 6.6 - 149.9
12800	4.8 - 77.6 / 15.7 - 254.6	3 - 48.5 / 9.8 - 159.1	-	2.8 - 64.6 / 9.2 - 211.9

Bounce Flash

By pointing the flash head toward a wall or ceiling, the flash will bounce off the surface before illuminating the subject. This can soften shadows behind the subject for a more natural-looking shot. This is called bounce flash.

Change the Bounce Direction

- You can turn the flash head as shown.
- Bounce flash is normally done with the flash head in the extended position.



- If the wall or ceiling is too far away, the bounced flash might be too weak and result in underexposure. If the picture appears dark, use a larger aperture opening (smaller f/number) and try again. You can also increase the ISO speed when using a digital camera.
- The wall or ceiling should be plain white for high reflectance. If the bounce surface is not white, a color cast may result in the picture.

AF-assist Beam


When autofocus cannot achieve focus on the subject in low-light conditions, the AF-assist beam activates automatically.

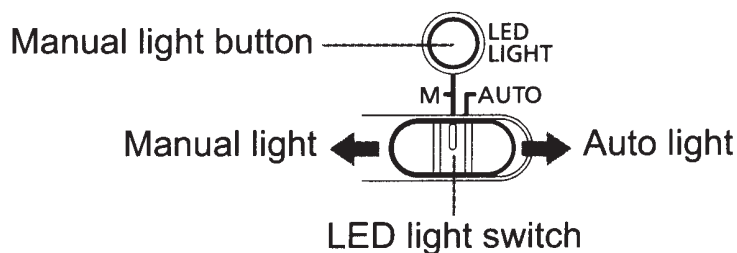
AF-assist Beam Using Continuous Flashes

When autofocus cannot achieve focus on the subject in low-light conditions while taking pictures using the viewfinder, pressing the shutter button halfway fires the flash continuously to assist autofocus. The flash also fires continuously under the same conditions when AF mode is set to **[Quick mode]** during Live View shooting or movie shooting. The effective range is approximately 4 m / 13.1 ft.

This function only works when used with an EOS digital camera with an external Speedlite control function. Depending on the camera model, the firmware of the camera may need to be updated.

AF-assist Beam Using the LED Light

The LED light can be used as the AF-assist beam when the AF mode is set to **[Live mode]** or **[ Live mode]** during Live View shooting or movie shooting. The effective range is approximately 4 m / 13.1 ft. (With f/1.8 lens at ISO 3200)



Manual light

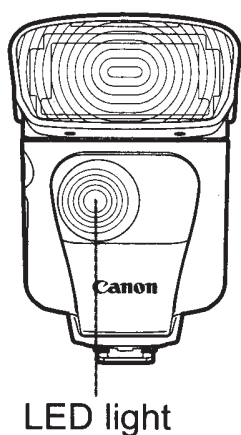
- Set the LED light switch to **<M>** and press the **<LED LIGHT>** button until the LED light turns on.
- The LED light will turn off after about 60 minutes of idle use.
- To turn off the LED light, press the **<LED LIGHT>** button until the LED light turns off.

 **The Speedlite does not fire when the LED light is turned on.**

Auto light

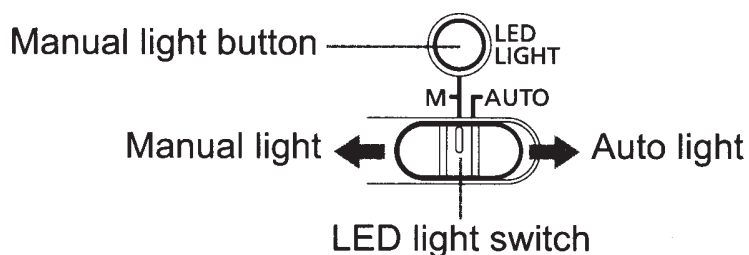
- If you use a camera that has an automatic LED light up function, set the LED light switch to <AUTO>.
- When the shutter button is pressed halfway in low-light conditions, the LED light turns on automatically to assist autofocus.

Movie Shooting Using the LED Light



The LED light is for use with EOS digital cameras that have a movie shooting function.

- The LED light can be used to light the subject within the angle of view of an EF lens of 50mm or longer or an EF-S lens of 32mm or longer.
- The LED light can be used up to approximately 3.5 hours with new batteries.



Turning on the Light Manually

- Set the LED light switch to <M> and press the <LED LIGHT> button until the LED light turns on.
- ▶ The LED light turns on.
- To turn off the LED light, press the <LED LIGHT> button until the LED light turns off.

Turning on the Light Automatically

If you use a camera that has an automatic LED light up function, the LED light turns on automatically when taking pictures in low-light conditions.


- Set the LED light switch to <AUTO>.
- The LED light turns on or off automatically according to the ambient light when the shooting image is displayed on the LCD monitor.
- The symbol <★> is displayed on the LCD monitor when the LED light is turned on automatically.



- When using the LED light to shoot portraits, keep the Speedlite at least 1 m / 3.3 ft. away from the subject. Using the LED light at close range to the person can impair the person's vision.
- When the auto light setting is set, the LED light turns on during Live View shooting or movie shooting in low-light conditions. To save battery power of the Speedlite, set the power switch to <OFF> or set the LED light switch to <M> when not in use.
- When the batteries' remaining power is low, the LED light may not turn on even if the flash-ready lamp is lit. If the LED light does not turn on, replace the flash batteries.
- With cameras that have an automatic LED light up function, if the flash batteries' remaining power is low, the <★> icon displayed on the camera's LCD monitor during movie shooting may blink. If the LED light does not turn on, replace the flash batteries.

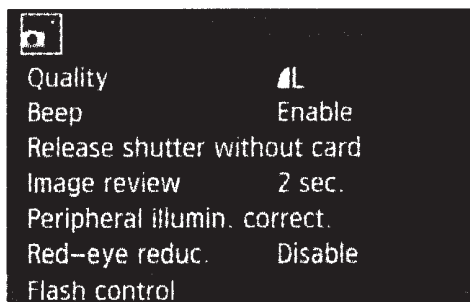
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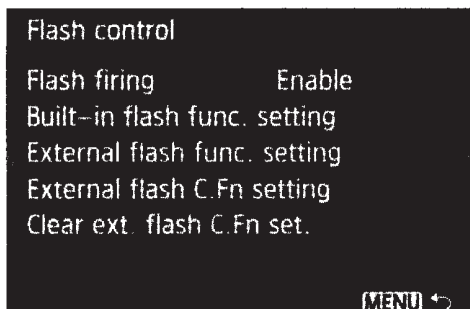
Flash Control from Camera Menu Screen ☆

By attaching the 320EX to an EOS digital camera with an external Speedlite control function, you can set various flash function settings with the camera's menu screen.



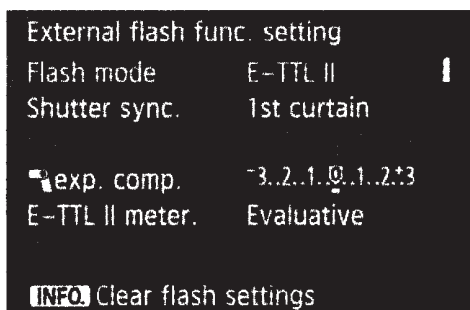
1 Select [Flash control].

- Press the camera <MENU> button and select **[Flash control]** or **[External Speedlite control]**.
- ▶ **[External flash func. setting]**, **[External flash C.Fn setting]**, and **[Clear ext. flash C.Fn set.]** are displayed.



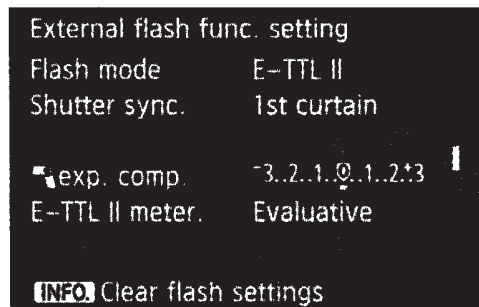
2 Select [External flash func. setting].

- ▶ You can set various flash settings in the **[External flash func. setting]** screen displayed.



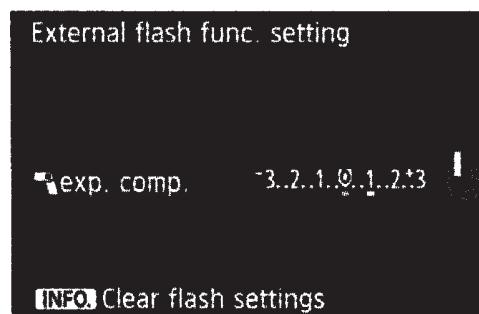
Flash Exposure Compensation ☆

In the same way as normal exposure compensation, you can set exposure compensation for flash. The flash exposure compensation amount can be set up to ± 3 stops in 1/3-stop increments. (If the camera's exposure compensation is set to 1/2-stop increments, flash exposure compensation will be in 1/2-stop increments.)




1 Select [exp. comp.].

- Select [ exp. comp.] and press <  >.



2 Set the flash exposure compensation amount.

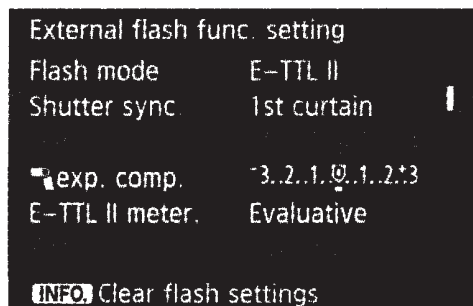
- Set the flash exposure compensation amount and press <  >.
- ▶ The flash exposure compensation amount is set.



- Depending on the camera model, the flash exposure compensation can be set with the Quick Control screen.
- Generally, set a decreased exposure compensation for dark subjects and set an increased exposure compensation for bright subjects.

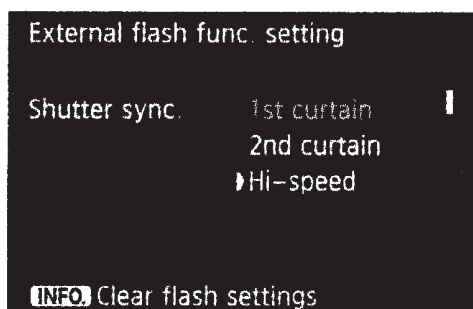
High-speed Sync [☆]

With high-speed sync (FP flash), the flash can synchronize with all shutter speeds. This is convenient when you want to use aperture priority for fill-flash portraits.




1 Select [Shutter sync.].



- Select [**Shutter sync.**] and press <  >.



2 Set [Hi-speed].

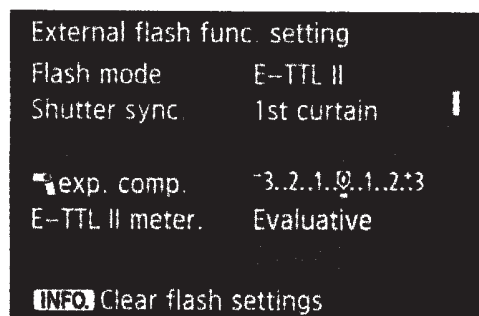
- Set [**Hi-speed**] and press <  >.
- ▶ High-speed sync is set.



- Check that <  _H > is lit in the viewfinder.
- If you set a shutter speed that is equal to or slower than the camera's maximum flash sync speed, <  _H > will not be displayed in the viewfinder.
- With high-speed sync, the faster the shutter speed, the shorter the effective flash range will be.
- To return to normal flash firing, set [**Shutter sync.**] to [**1st curtain**].

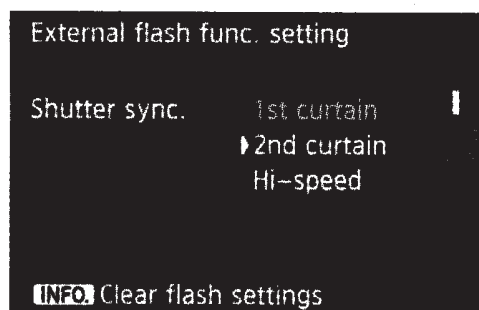
Second-curtain Sync ☆

With a slow shutter speed, you can create a light trail following the subject. The flash fires right before the shutter closes.



1 Select [Shutter sync.].

- Select **[Shutter sync.]** and press **<SET>**.



2 Set [2nd curtain].

- Set **[2nd curtain]** and press **<SET>**.
- ▶ Second-curtain sync is set.



- Second-curtain sync works well in the camera's Bulb mode.
- To return to normal flash firing, set **[Shutter sync.]** to **[1st curtain]**.
- In E-TTL II/E-TTL flash mode, when you press the shutter button completely, a preflash will be fired. Then, right before the shutter closes, the main flash is fired.

Manual Flash ☆

You can set the flash output from 1/64 power to 1/1 full power in 1/3-stop increments. Use a hand-held flash meter to determine the required flash output to obtain a correct flash exposure. Setting the camera's shooting mode to <**Av**> or <**M**> is recommended.

External flash func. setting

Flash mode E-TTL II

Shutter sync. 1st curtain

Flash exposure comp. -3..2..1..0..1..2..3

Flash exposure comp. -3..2..1..0..1..2..3

E-TTL II meter. Evaluative

E-TTL II meter. Evaluative

E-TTL II meter. Evaluative

INFO Clear flash settings

1 Select [Flash mode].

- Select [Flash mode] and press <SET>.

External flash func. setting

Flash mode E-TTL II

▶ Manual flash

▶ Manual flash

▶ Manual flash

▶ Manual flash

▶ Manual flash

▶ Manual flash

INFO Clear flash settings

2 Select [Manual flash].

- Select [Manual flash] and press <SET>.

External flash func. setting

Flash mode Manual flash

Flash output 1/4 . . 1/2 . . 1/1

Shutter sync. 1st curtain

Shutter sync. 1st curtain

Shutter sync. 1st curtain

Wireless func. Disable

Wireless func. Disable

Wireless func. Disable

INFO Clear flash settings

3 Set [Flash output].

- Select [Flash output] and press <SET>.
- Set the flash output and press <SET>.

Metered Manual Flash Exposures

When the Speedlite is attached to an EOS-1D series camera, you can also set the flash exposure level manually.

1 Set the camera and Speedlite settings.

- Setting the camera's shooting mode to <Av> or <M> is recommended.
- Set [Flash mode] to [Manual flash] for the Speedlite.

2 Focus the subject.

- Focus manually.

3 Set up an 18% gray card.

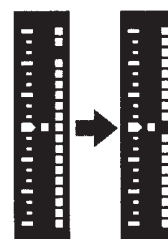
- Place the gray card at the subject's position.
- In the viewfinder, the entire spot metering circle at the center should cover the gray card.

4 Press the <FEL> button. (⌚16)

- ▶ The Speedlite will fire a preflash and the required flash output for the subject is retained in memory.
- ▶ On the right side of the viewfinder, the exposure level indicator will show the flash exposure level for the correct flash exposure.

5 Set the flash exposure level.

- Adjust the Speedlite's manual flash level and the camera aperture so that the flash exposure level aligns with the standard exposure index.




6 Take the picture.

- Remove the gray card and take the picture.

Setting Custom Functions ☆

You can customize the Speedlite features to suit your shooting preferences with Custom Functions.

Setting External Flash Custom Functions

- 1 Select [External flash C.Fn setting] on the [Flash control] menu screen and press <  >.
- 2 Select the Custom Function number in the same way as with Custom Functions for the camera, and change the setting.

Custom Function No.	Function	Setting No.	Settings & Description	Reference Page
C.Fn-01	Auto power off	0	Enabled	p.10
		1	Disabled	
C.Fn-06	Quickflash w/continuous shot	0	Disabled	p.10
		1	Enabled	
C.Fn-10	Slave auto power off timer	0	60 minutes	p.35
		1	10 minutes	
C.Fn-11	Slave auto power off cancel	0	Within 8 hours	p.35
		1	Within 1 hour	

- **C.Fn-10:** Takes effect when the 320EX is set as the slave unit during wireless flash shooting. To save battery power, set the auto power off timer to 10 minutes.
- **C.Fn-11:** Takes effect when the 320EX is set as the slave unit during wireless flash shooting. The master unit can cancel the auto power off on the 320EX within eight hours or one hour after the 320EX enters the auto power off mode.

Clearing External Flash Custom Functions

Selecting [Clear ext. flash C.Fn set.] on the [Flash control] menu screen clears all set flash Custom Functions.

4

Wireless Flash Shooting

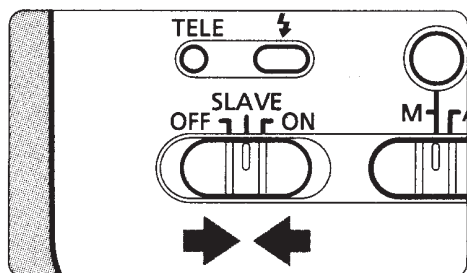
Wireless Flash Shooting	34
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Wireless Flash Shooting ☆

To perform wireless flash shooting, the camera or the Speedlite attached to the camera must have a master function. The 320EX fires as a slave flash when controlled from a master unit. For the detailed shooting method, refer to the instruction manual of the camera or the Speedlite with a master function.

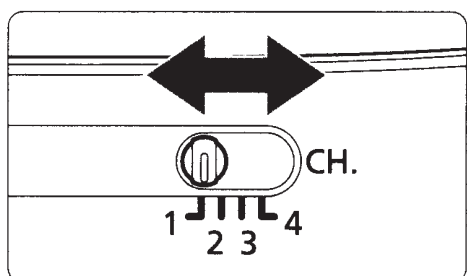
1 Set the camera or Speedlite as the master unit.

- Refer to the instruction manual of the camera or Speedlite.



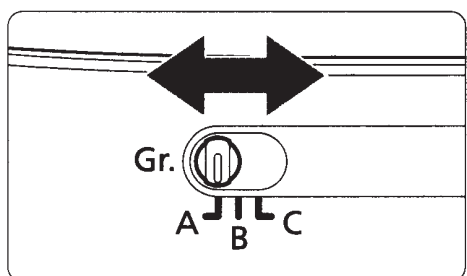
2 Set the 320EX as the slave unit.

- Set the power switch of the 320EX to <SLAVE>.



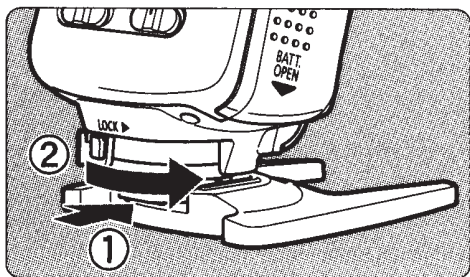
3 Set the transmission channel.

- Set the transmission channel on the master unit.
- Set the 320EX to the same transmission channel as the master unit.



4 Set [Firing group].

- Set the firing group to match the shooting purpose of the master unit.



5 Attach the 320EX to the provided mini stand and position the flash.

- Use the horizontal bounce function and point the sensor of the slave unit toward the master unit.
- Indoors, you can perform wireless flash shooting using the reflection of the surrounding walls without having the wireless sensor of the 320EX facing the camera. Position the 320EX while checking that it can fire.

6 Take the picture.

- Set the camera and take the picture, in the same way as with normal flash shooting.
- When you are done with wireless flash shooting, set [**Wireless func.**] to [**Disable**].



- Do not place any obstacles between the master unit and slave unit(s). Obstacles can block the transmission of wireless signals.
- Even with multiple slave units, all of them will be controlled in the same way via wireless.
- If the slave unit's auto power off takes effect, perform FE lock operation or turn the slave unit off and on again to turn on the slave unit.

Using Fully Automatic Wireless Flash

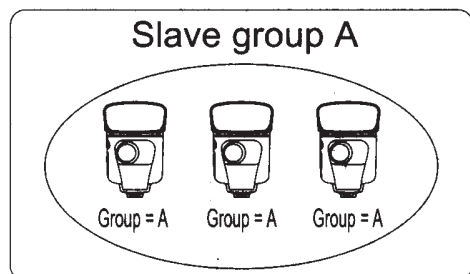
Flash exposure compensation and other settings set with the master unit will also be automatically set in the slave unit(s). Thus, you need not operate the slave unit(s). Wireless flash shooting with the following settings can be done in the same way as with normal flash shooting.

- Flash exposure compensation
- FE lock
- Manual flash



With FE lock, if even one Speedlite results in underexposure, the <⚡> icon will blink in the viewfinder. Open the aperture more or move the slave unit closer to the subject.

Slave Group Control



For example, if you have the slave ID set to <A> for three slave units, all three slave units will be controlled as if they were one Speedlite in slave group A.

Modeling Flash

Modeling flash enables you to see the shadow effects on the subject and the lighting balance. You can use modeling flash with a master flash unit or Speedlite Transmitter (sold separately) attached to the camera. Modeling flash can be used for wireless flash shooting as well as normal flash shooting.

Press the depth-of-field preview button on the camera.

- ▶ The flash fires continuously for about one second.
- Position the Speedlite to achieve the desired shadow effect on the subject.

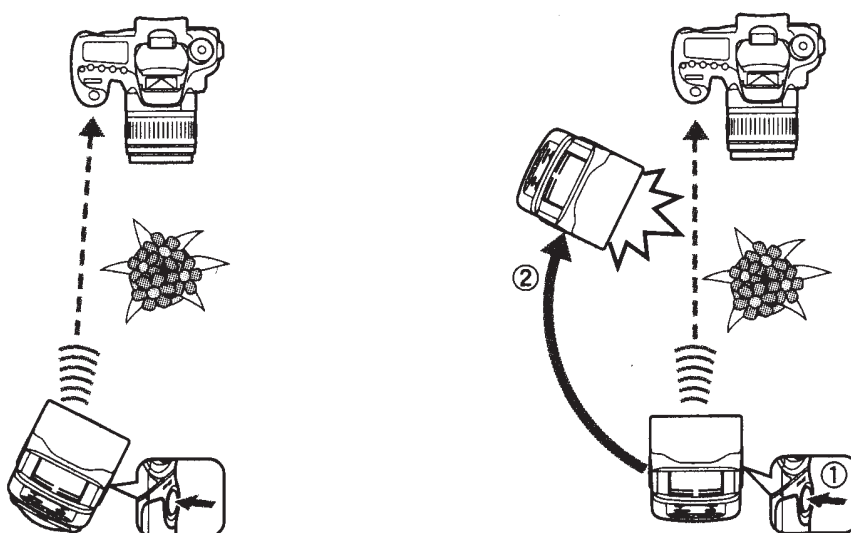


- Modeling flash is not available during wireless flash shooting on cameras with a master unit function.
- Do not fire the modeling flash more than 10 consecutive times. If you fire the modeling flash 10 consecutive times, allow the Speedlite to rest for at least 10 min. to avoid overheating and deteriorating the flash head.

Using the 320EX for Remote Control Shooting During Wireless Flash Shooting

The 320EX can be used for remote control shooting with cameras compatible with Remote Controller RC-1, RC-5, or RC-6. When wireless flash shooting is enabled, remote control shooting is possible while changing easily the position of the 320EX.

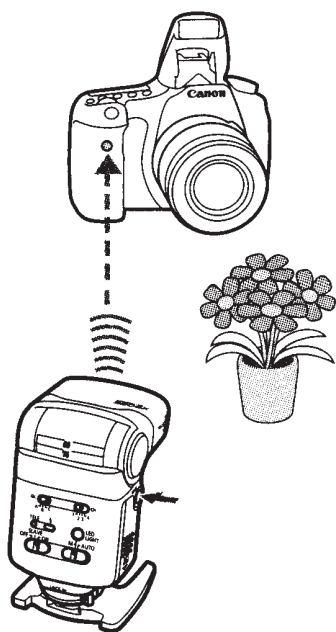
Example of using the flash for wireless flash shooting



- Press the remote release button on the 320EX and position the 320EX within two seconds.

1 Set the camera to **< i >** (Remote control shooting).

- For the setting method, see the explanations about the drive mode or remote control shooting in the camera's instruction manual.
- Shade the eyepiece of the camera viewfinder so that light does not enter.



2 Take the picture.

- Check that the <⚡> lamp is lit, point the remote control transmitter toward the camera, and press the remote release button.
- ▶ The picture is taken two seconds later.
- When wireless flash shooting is enabled and the power switch on the 320EX is set to <SLAVE>, the 320EX fires.

Bulb (Long Exposure) Shooting

When you press the remote release button during bulb shooting, the shutter opens two seconds later. Press the remote release button again to close the shutter.



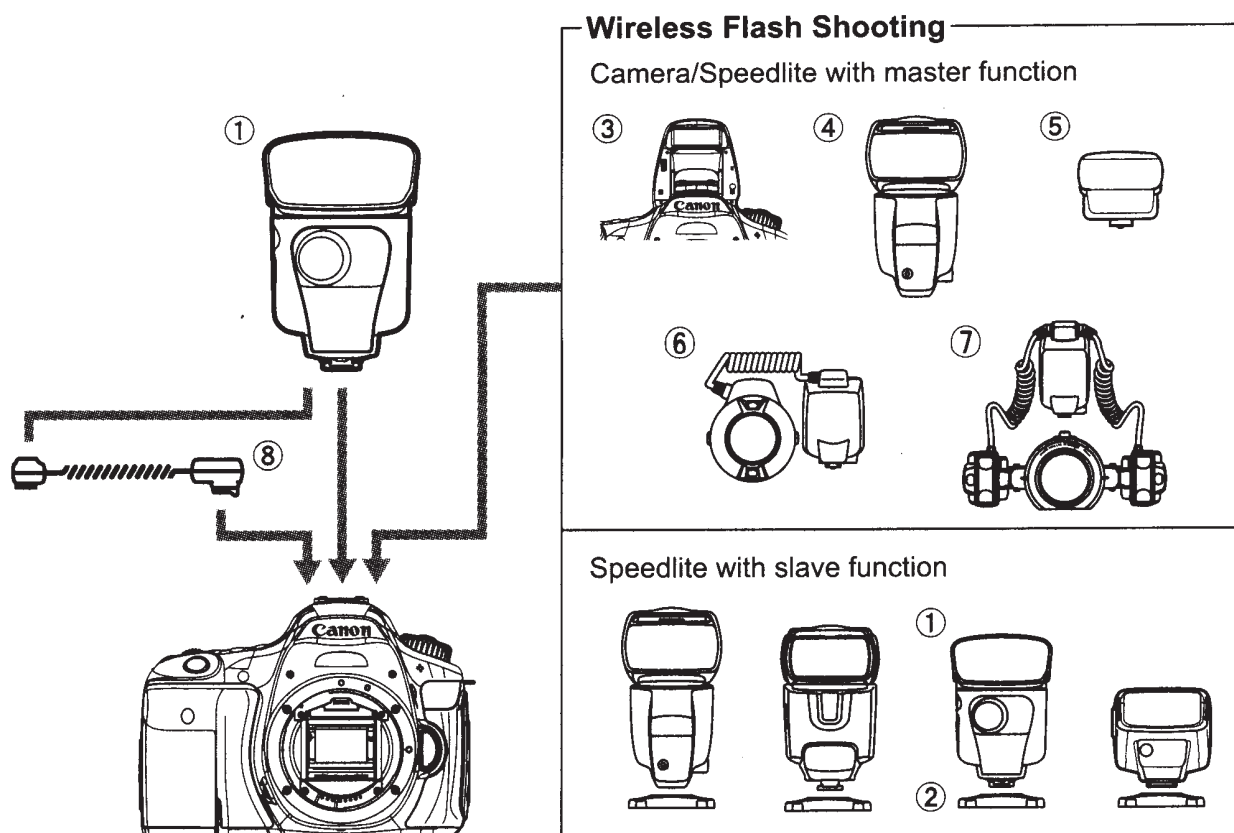
If the flash-ready lamp is not lit, pressing the remote release button does not take a picture.



- Be careful not to cover the remote control transmitter or wireless sensor of the 320EX with your hand.
- The remote control function has an operation range of about 5 m / 16.4 ft. from the front of the camera.
- Check the shooting results while performing remote control shooting.
- When the power switch on the 320EX is set to <ON> and you press the remote release button, a picture is taken two seconds later in the same way as with the Remote Controller RC-6. The 320EX does not fire.

Reference

320EX System



- ① **Speedlite 320EX** (On-camera/Slave unit)
- ② **Mini stand** (included with 320EX)
- ③ **EOS camera with wireless master function**
- ④ **Speedlite 580EX II**
- ⑤ **Speedlite Transmitter ST-E2**
Dedicated transmitter for wireless control of 320EX set as slave units.
- ⑥ **Macro Ring Lite MR-14EX** / ⑦ **Macro Twin Lite MT-24EX**
Flash for macro photography.
- ⑧ **Off-Camera Shoe Cord OC-E3**
Enables the 320EX to be connected to the camera up to 60 cm / 2 ft. away.

Troubleshooting Guide

If a problem occurs with the flash, first refer to this Troubleshooting Guide. If this Troubleshooting Guide does not resolve the problem, contact your dealer or nearest Canon Service Center.

The Speedlite does not fire.

- Make sure that the batteries are installed in the correct orientation. (p.8)
- Insert the mounting foot into the camera's hot shoe all the way, slide the lock lever to the right, and secure the Speedlite to the camera. (p.9)
- If the flash recycling time takes 30 sec. or longer, replace the batteries. (p.8)
- If the electrical contacts of the Speedlite and camera are dirty, clean the contacts. (p.4)

The power turns off by itself.

- Auto power off took effect. Press the shutter button halfway. (p.10)

The bottom of the picture looks dark.

- You were too close to the subject. Move away from the subject.
- Remove the lens hood if attached.

The periphery of the picture is dark.

- If you took the picture with the flash head extended, the flash coverage will be smaller. Retract the flash head to the normal position and take the picture again. (p.19)

The flash exposure is underexposed or overexposed.

- If there was a highly reflective object (glass window, etc.) in the picture, use FE lock. (p.18)
- If the subject looks very dark or very bright, set flash exposure compensation. (p.27)
- When high-speed sync is set, the effective flash range will be shorter, so move closer to the subject. (p.28)

The picture is very blurred.

- When the shooting mode is set to <**Av**> and the scene is dark, slow sync is enabled automatically and the shutter speed becomes slower. Use a tripod or set the shooting mode to <**P**>. (p.12)

The slave unit does not fire.

- When using the built-in flash of the camera as the master unit:
 - Raise the camera's built-in flash.
 - Use [**Built-in flash func. setting**] on the camera to set the wireless flash functions.
- Set the power switch to <**SLAVE**>. (p.34)
- Make sure that the transmission channel on the slave unit matches the master unit's transmission channel. (p.34)
- Point the wireless sensor on the slave unit toward the master unit. (p.35)

The periphery of the movie screen looks dark.

- When using the LED light in a dark scene, adjust the focal length at 50mm or longer for an EF lens or 32mm or longer for an EF-S lens and shoot. (p.23)

Remote control shooting does not work.

- Remote control shooting works only with cameras compatible with Remote Controller RC-1, RC-5, or RC-6. (p.38)
- Set the camera's drive mode to <**i**> (Remote control shooting).

Specifications

• Type

Type:	On-camera, E-TTL II/E-TTL autoflash Speedlite
Compatible cameras:	Type-A EOS cameras (E-TTL II/E-TTL autoflash)
Guide No.:	32/105 (at 50mm focal length, ISO 100 in meters/feet)
Flash coverage:	EF lens: 24mm/50mm equivalent angle of view EF-S lens: 15mm/32mm equivalent angle of view *Manual switching of flash coverage
Bounce direction:	90° up, 180° left, 90° right
Color temperature information transmission:	Flash color temperature information transmitted to camera when flash is fired

• Exposure Control

Exposure control system:	E-TTL II/E-TTL autoflash, manual flash
Effective flash range:	Normal flash: 0.7 - 22.9 m / 2.3 - 75.1 ft. Quick flash: 0.7 - 13.1 m / 2.3 - 43 ft. High-speed sync: 0.7 - 11.4 m / 2.3 - 37.4 ft. (at 1/250 sec.) *With EF50mm f/1.4 lens at ISO 100

Functions supported by camera operations:	Flash exposure compensation (± 3 stops in 1/3- or 1/2-stop increments), manual flash, 1st/2nd curtain sync, High-speed sync, FE lock, modeling flash
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• AF-assist Beam

• Intermittent flash-type AF-assist beam

Compatible AF method:	AF during viewfinder shooting, and [Quick mode] during Live View shooting or movie shooting
Effective range:	At center: Approx. 0.7 - 4 m / 2.3 - 13.1 ft., Periphery: Approx. 0.7 - 3.5 m / 2.3 - 11.5 ft.

• AF-assist beam using the LED light

Compatible AF method:	[Live mode] or [Live mode] during Live View shooting or movie shooting
Effective range:	At center: Approx. 0.7 - 4 m / 2.3 - 13.1 ft., Periphery: Approx. 0.7 - 3 m / 2.3 - 9.8 ft.

• Wireless Slave Function

Transmission method:	Optical pulse
Channels:	4
Group switching:	Switchable among groups A, B, and C
Reception angle:	$\pm 45^\circ$ horizontally, 27° up and 20° down, facing the master unit

• LED Light

Brightness:	Approx. 75 lux
Coverage:	EF50mm lens angle of view
Range:	At ISO 3200 f/1.4: Approx. 4 m / 13.1 ft., f/2.8: Approx. 2 m / 6.6 ft., f/4: Approx. 1.4 m / 4.6 ft., f/5.6: Approx. 1 m / 3.3 ft.

• Remote Release Function

Compatible cameras:	Cameras compatible with Remote Controller RC-6, RC-5, or RC-1
Release mode:	Release after 2 sec.
Operating range:	Approx. 5 m / 16.4 ft. from the front of the camera

• Custom Functions: 4 (8 settings)

• Power Source

Battery:	Four AA/LR6 alkaline batteries *AA/LR6 Ni-MH and lithium batteries also usable
Recycling time:	Approx. 0.1 - 2.3 sec. (Quick flash: Approx. 0.1 - 1.8 sec.)
Flash-ready indicator:	Flash-ready lamp lights
Battery life (flash count):	Approx. 180 - 1000 flashes (with AA/LR6 alkaline batteries)
LED light:	Lights for a maximum of approx. 3.5 hours (with AA/LR6 alkaline batteries)
Power saving:	Power off after approx. 90 sec. of idle operation (60 min. if set as slave unit)

• Dimensions and Weight

Dimensions (W x H x D):	Approx. 70 x 115 x 78.4 mm / 2.8 x 4.5 x 3.1 in.
Weight:	Approx. 275 g / 9.7 oz. (Speedlite only, excluding batteries)

- All specifications above are based on Canon's testing standards.
- Product specifications and external appearance are subject to change without notice.

Manual Flash Guide No. (ISO 100, in meters/feet)

Flash Output Flash Coverage	1/1	1/2	1/4	1/8	1/16	1/32	1/64
24mm (flash head in normal position)	24 / 78.7	17 / 55.8	12 / 39.4	8.5 / 27.9	6 / 19.7	4.2 / 13.8	3 / 9.8
50mm (flash head in extended position)	32 / 105	22.6 / 74.1	16 / 52.5	11.3 / 37.1	8 / 26.2	5.7 / 18.7	4 / 13.1

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

The apparatus shall not be exposed to dripping or splashing.
Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
Dry batteries shall not be subjected to charging.



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This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC) and your national law. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or your household waste disposal service. Your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources and will avoid incurring administrative sanctions according to art. 50 and following of Italian legislative decree 22/97. For more information regarding return and recycling of WEEE products, please visit www.canon-europe.com/environment.

(EEA: Norway, Iceland and Liechtenstein)



This Instructions booklet is dated January 2011. For information on the camera's compatibility with system accessories marketed after this date, contact your nearest Canon Service Center.



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			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
INTERCHANGEABLE LENS Objetif interchangeable OBJETIVOS INTERCAMBIABLES	OWN En possession EN POSESIÓN	INTERESTED IN Intéressé par INTERESADO EN	OTHER ACCESSORIES Autres accessoires OTROS ACCESORIOS	OWN En possession EN POSESIÓN	INTERESTED IN Intéressé par INTERESADO EN
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	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

CT5-7728-005

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MODEL Modèle MODELO	SPEEDLITE 320EX	SERIAL NO. No. de série N° DE SERIE	
CUSTOMER Client CLIENTE			
NAME Nom NOMBRE		ADDRESS Adresse DIRECCION	
CITY/STATE Ville/Province CIUDAD/ESTADO		ZIP Code postal CÓDIGO POSTAL	PHONE Téléphone TELÉFONO

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When returning equipment for warranty service, the shipping charges must be prepaid and the equipment should be shipped in its original carton or box, or an equivalent, properly packed to withstand the hazards of shipment and be fully insured. A copy of this warranty card and proof of purchase should be enclosed, as well as a description of the problem, film samples, etc. Repairs will be made and the equipment will be returned, shipped at NO CHARGE within the country of repair.

This warranty only covers defective materials or workmanship encountered in normal use of the equipment and does not apply in the following cases:

(a) Loss or damage to the equipment due to abuse causing deterioration, mishandling, accident or failure to follow operating instructions.

(b) If equipment is defective as a result of leaking batteries or liquid damage.

(c) Defective materials or workmanship where the defect is due to the equipment having been serviced or modified by other than Canon International Warranty Members or other authorized service facilities around the world.

(d) Malfunction resulting from the use of accessories, attachments, product supplies, parts or devices (including, without limitation, batteries, film, lenses, flash attachments and other accessories) with this Canon photographic equipment that do not conform to Canon specifications.

(e) Damage resulting during shipment. (Claim must be presented and examined by the shipper.)

Equipment covered by this warranty may be repaired by Canon International Warranty Members located outside the United States, Canada, Australia, the United Kingdom, New Zealand, Mexico and Japan, WITHOUT CHARGE, except for insurance, transportation and handling charges. (Worldwide list of Canon International Warranty Members included with equipment.)

CANON COMPANY EXCLUDES ALL REPRESENTATIONS, WARRANTIES, CONDITIONS OR LIABILITIES (WHETHER EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) IN RELATION TO THE EQUIPMENT, EXCEPT THOSE WHICH ARE SET FORTH ABOVE AND/OR EXCEPT TO THE EXTENT THAT ANY SUCH EXCLUSION WOULD CONTRAVENE ANY STATUTE OR CAUSE THIS TERM TO BE VOID.

EXCEPT TO THE EXTENT THAT ANY SUCH EXCLUSION WOULD CONTRAVENE ANY STATUTE OR CAUSE THIS TERM TO BE VOID, CANON COMPANY EXCLUDES ALL LIABILITY TO THE PURCHASER IN RESPECT OF ANY CLAIM (WHETHER CONTRACTUAL, TORTIOUS, STATUTORY OR OTHERWISE) FOR ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSS, DAMAGE, COST OR EXPENSE (INCLUDING, WITHOUT LIMITATION, ANY LOSS OF FILM) IN RELATION TO THE EQUIPMENT OR ANY SERVICES SUPPLIED BY CANON COMPANY IN RELATION TO THE EQUIPMENT. THE EQUIPMENT SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS EQUIPMENT OR THE PERSON FOR WHOM IT WAS PURCHASED AS A GIFT.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, province to province and country to country. KEEP THIS WARRANTY CARD. IT IS YOUR PERMANENT RECORD OF WARRANTY. IF LOST IT WILL NOT BE ISSUED.

*Limited Warranty means that the contents of this warranty are limited to the above-mentioned terms and conditions.

MODEL MODELE MODELO	SPEEDLITE 320EX	BODY NO. BOTIER NO N° DE CUERPO
PURCHASE DATE DATE D'ACHAT FECHA DE COMPRA		
/ /		
THIS WARRANTY CARD AND YOUR BILL OF SALE MUST BE PRESENTED FOR WARRANTY SERVICE.		DEALER'S NAME & ADDRESS MARCHAND NOM & ADRESSE NOMBRE Y DIRECCION DEL DISTRIBUIDOR
CETTE CARTE DE GARANTIE ET VOTRE PREUVE D'ACHAT DOIVENT ÊTRE PRÉSENTÉES POUR RECEVOIR LE SERVICE SANS GARANTIE.		
PRESENTE ESTA TARJETA DE GARANTIA Y LA BOLETA DE COMPRA PARA PODER RECIBIR EL SERVICIO DE GARANTIA.		

Canon

GARANTEE LIMITEE

La garantie internationale décrite ci-dessous est accordée par la société CANON à l'égard des produits de photographie Canon achetés aux Etats-Unis, au Canada, en Australie, au Royaume-Uni, en Nouvelle Zélande, au Mexique ou au Japon.

La présente garantie internationale n'est valide que sur présentation de la carte de garantie et d'une preuve d'achat.

Le présent équipement Canon est garanti contre les vices de matériaux ou de fabrication pendant une période de un (1) an à compter de la date de l'achat initial. Si l'équipement présente une défectuosité pendant la période de garantie, les pièces défectueuses seront réparées, réglées et (ou) remplacées.

L'équipement sous garantie sera réparé SANS FRAIS par les membres du réseau mondial de fournisseurs de service sans garantie internationale de Canon, qui sont situés aux Etats-Unis, au Canada, en Australie, au Royaume-Uni, en Nouvelle Zélande, au Mexique et au Japon. (La liste des membres du réseau mondial de fournisseurs de service sans garantie internationale de Canon accompagne l'équipement.)

Si le produit est retourné pour être réparé ou remplacé au titre de la garantie, l'expéditeur du produit doit payer d'avance les frais d'expédition. L'équipement doit être envoyé dans sa boîte originale, ou dans un emballage équivalent, être assuré pour sa valeur intégrale, et il doit être emballé adéquatement pour éviter les risques de dommages en cours de transport. L'équipement doit être accompagné d'une copie de la présente carte de garantie, d'une preuve d'achat ainsi que d'une description du problème, d'échantillons de pellicule ou de toute autre preuve de défectuosité. Les réparations seront effectuées et l'équipement sera retourné à l'expéditeur, SANS FRAIS, si l'adresse de l'expéditeur est dans le pays où l'équipement a été réparé.

La présente garantie ne couvre que les vices de matériaux et de fabrication survenus dans le cadre d'une utilisation normale de l'équipement. Elle ne s'applique pas dans les cas suivants:

(a) perte de l'équipement ou dommage à l'équipement en raison d'un usage abusif menant à la détérioration, d'une manipulation inappropriée, d'un accident ou de tout défaut de suivre les directives d'utilisation;

(b) défectuosité attribuable à une fuite au niveau des piles ou dommages dus à une exposition à des substances liquides;

(c) vices de matériaux ou de fabrication dus à la réparation ou à la modification de l'équipement par un tiers, autre qu'un membre du réseau mondial de fournisseurs de service sans garantie de Canon, ou autre qu'un point de service autorisé au monde;

(d) défaut de fonctionnement découlant de l'usage d'accessoires, de compléments, de fournitures, de pièces ou de dispositifs (y compris, sans toutefois s'y limiter, les piles, les pellicules, les lentilles, les lampes-éclairs et autres accessoires) qui sont non conformes aux spécifications Canon et qui sont utilisés avec cet équipement de photographie Canon;

(e) dommages subis en cours de transport (Toute réclamation doit être présentée et examinée par le transporteur.)

L'équipement sous garantie peut être réparé SANS FRAIS par les membres du réseau mondial de fournisseurs de service sans garantie de Canon qui ont une place d'affaires à l'extérieur des Etats-Unis, du Canada, de l'Australie, du Royaume-Uni, de la Nouvelle Zélande, du Mexique et du Japon, mais le propriétaire de l'équipement devra assumer les frais d'assurance, de transport et de manutention. (La liste des membres du réseau mondial de fournisseurs de service sans garantie de Canon accompagne l'équipement.)

LA SOCIÉTÉ CANON DÉCLARE QU'IL N'EXISTE À L'ÉGARD DE CET ÉQUIPEMENT, AUCUNE AUTRE DÉCLARATION, GARANTIE, CONDITION OU OBLIGATION (EXPRESSE OU IMPLIÉE), Y COMPRIS TOUTE GARANTIE DE QUALITÉ MARCHANDE OU DE CONVENANCE À UN USAGE PARTICULIER, QUE LA GARANTIE ÉNONCÉE CI-DESSUS, À MOINS QU'UNE TELLE CLAUSE D'EXCLUSION NE FREINÉ TOUTE LOI APPLICABLE OU NE RENDE LA PRÉSENTE MODALITÉ NULLE.

A MOINS QU'UNE TELLE CLAUSE D'EXCLUSION NE FREINÉ TOUTE LOI APPLICABLE OU NE RENDE LA PRÉSENTE MODALITÉ NULLE, LA SOCIÉTÉ CANON N'ASSUME AUCUNE RESPONSABILITÉ À L'ÉGARD DE TOUTE RÉCLAMATION (DE NATURE CONTRACTUELLE, DÉLICTUELLE, LÉGALE OU AUTRE) FONDÉE SUR TOUTE Perte Y COMPRIS, SANS TOUTEFOIS S'Y LIMITER, TOUTE PERTE DE PELLICULE, TOUTS DOMMAGES, TOUT COUT OU TOUTS FRAIS DE NATURE GÉNÉRALE, SPÉCIALE, ACCESSOIRE OU INDÉTERMINÉE TOUCHANT L'ÉQUIPEMENT OU SUR TOUT SERVICE DISPENSÉ PAR LA SOCIÉTÉ CANON À L'ÉGARD DE L'ÉQUIPEMENT. LA PRÉSENTE GARANTIE NE S'APPLIQUERA À AUCUNE AUTRE PERSONNE QUE L'ACHETEUR INITIAL DE CET ÉQUIPEMENT OU LA PERSONNE QUI L'A REÇU EN CADEAU.

La présente garantie vous confère des droits particuliers en vertu de la loi, et il se peut que vous ayez d'autres droits qui varient selon l'état, la province ou le pays. VEUILLEZ CONSERVER LA PRÉSENTE CARTE DE GARANTIE. ELLE CONSTITUE UNE PREUVE PERMANENTE DE LA GARANTIE APPLICABLE À VOTRE ÉQUIPEMENT ET NE SERA PAS REMISE EN CAS DE PERTE.

*La présente garantie est qualifiée de limitée car son contenu est restreint aux modalités et conditions décrites ci-dessus.

Canon

GARANTIA LIMITADA

La garantía limitada establecida a continuación es otorgada por las empresas CANON COMPANY indicadas en la lista de abajo, para los productos fotográficos Canon comprados en los Estados Unidos, Canadá, Australia, Reino Unido, Nueva Zelanda, México o Japón.

Esta garantía internacional limitada será efectiva únicamente contra presentación de la tarjeta de garantía y de una prueba fehaciente de la compra.

El equipo Canon está garantizado contra defectos de material o de mano de obra bajo uso normal por un periodo de un (1) año a partir de la fecha de compra original y se encuentra limitado a la reparación, ajuste o sustitución y/o reemplazo de las piezas defectuosas.

El equipo cubierto por esta garantía será reparado por los miembros de la garantía internacional Canon ubicados en los Estados Unidos, Canadá, Australia, Reino Unido, Nueva Zelanda, Canon Latin America, México y Japón SIN CARGO ALGUNO. (La lista de los miembros de la garantía internacional Canon que acompaña al equipo).

El equipo cubierto por esta garantía será reparado por los miembros de la garantía internacional Canon, SIN CARGO ALGUNO, excepto para los gastos de seguro, transporte y manejo. (Véase la lista de miembros de la garantía internacional Canon que acompaña al equipo).

Para poder recibir el servicio de garantía, usted deberá enviar el producto con todos los fletes pagados de antemano en su caja de cartón original o equivalente, debidamente empaquetado para que pueda soportar los riesgos de transporte, y completamente asegurado. Se deberá incluir una copia de esta tarjeta de garantía y una prueba fehaciente de la compra, junto con una descripción del problema, muestras de películas, etc.

Se efectuarán las reparaciones y el flete de la devolución del equipo será SIN CARGO dentro del país de reparación.

Esta garantía cubre únicamente los defectos de material o de mano de obra bajo uso normal, y no será aplicable en los siguientes casos:

(a) Pérdidas o daños al equipo causados por deterioro resultante del abuso, mal uso, accidente, o falta de atención a las instrucciones de funcionamiento.

(b) Defectos del equipo resultante de pérdida de electricidad o de daños causados por el mismo.

(c) Defecto de material o de mano de obra cuando el defecto sea resultado de modificación o reparación realizada por personal distinto de los miembros de la garantía internacional Canon u otros centros de servicio autorizados distribuidos por todo el mundo.

(d) Fallo de funcionamiento resultante de la utilización, junto con este equipo fotográfico Canon, de accesorios, piezas de sujeción, consumibles del producto, repuestos o dispositivos (incluyendo, en limitación, pilas, películas, objetivos, accesorios de flash y otros accesorios) que no cumplen con las especificaciones de Canon.

(e) Daños provocados durante el transporte. (El reclamo debe ser presentado a y examinado por la empresa de transporte).

El equipo cubierto por esta garantía puede ser reparado por los miembros de la garantía internacional Canon ubicados fuera de Estados Unidos, Canadá, Australia, Reino Unido, Nueva Zelanda, Canon Latin America, México y Japón SIN CARGO ALGUNO, excepto para los gastos de seguro, transporte y manejo. (La lista de los miembros de la garantía internacional Canon del mundo que acompaña al equipo).

CANON COMPANY EXCLUYE TODAS LAS REPRESENTACIONES, GARANTÍAS, CONDICIONES U OBLIGACIONES (SEA EXPRESA O IMPLÍCITA, INCLUYENDO COMERCIABILIDAD E IDONEIDAD PARA UN PROPÓSITO PARTICULAR) RELACIONADAS CON EL EQUIPO, EXCEPTO LO EXPRESAMENTE ESTABLECIDO EN EL TEXTO PRECEDENTE Y/O EXCEPTO HASTA EL GRADO EN QUE ALGUNA EXCLUSIÓN PUEDA INFRINGIR ALGUN ESTATUTO O CAUSAR LA ANULACIÓN DE ESTOS TÉRMINOS.

EXCEPTO HASTA EL GRADO EN QUE ALGUNA EXCLUSIÓN PUEDA INFRINGIR ALGUN ESTATUTO O CAUSAR LA ANULACIÓN DE ESTOS TÉRMINOS, CANON COMPANY NO SERÁ DE NINGUNA MANERA RESPONSABLE ANTE EL COMPRADOR POR CUALQUIER RECLAMO YA SEA CONTRACTUAL, EXTRA CONTRACTUAL, ESTATUARIO, O DE OTRA INDOLE DERIVADO A PERJUICIO GENERAL, ESPECIAL, INCIDENTAL O CONSECUENTE, NI POR DAÑOS, COSTES O GASTOS (INCLUYENDO, SIN LIMITACIÓN, PÉRDIDAS DE PELLICULA) RELACIONADOS CON EL EQUIPO O CUALQUIER SERVICIOS SUMINISTRADOS POR CANON COMPANY EN RELACIÓN CON EL EQUIPO. ESTA GARANTÍA SE APLICARÁ ÚNICAMENTE PARA EL COMPRADOR ORIGINAL DE ESTE EQUIPO O PARA CUALQUIER FUERA ADQUIRIDO COMO REGALO.

Esta garantía le otorga a usted derechos legales específicos, y es posible que disfrute también de otros derechos que varían de estado a estado, de provincia a provincia, o de país a país. GUARDE ESTA TARJETA DE GARANTÍA. CONSTITUYE UNA PRUEBA PERMANENTE DE LA GARANTÍA, Y NO SERÁ REMITIDA EN CASO DE EXTRAVÍO.

*Garantía limitada significa que el contenido de esta garantía se encuentra limitado a los términos y condiciones mencionados más arriba.

Canon Australia Pty. Ltd. 1 Thomas Holt Drive, North Ryde, Sydney N.S.W.2113, Australia
Canon Canada, Inc. 6390 Dixie Road, Mississauga, Ontario, L5T 1P7 Canada
Canon New Zealand Ltd. Akoranga Business Park, Akoranga Drive, Northcote, Auckland, New Zealand
Canon UK RCC. Unit130 Centennial Park Estate Hill South, Borehamwood Estate, Herts, WD6 3SE, United Kingdom
Canon U.S.A., Inc. One Canon Plaza Lake Success, NY 11042 U.S.A.
Canon Mexicana S DE RL DE C.V. Blvd. Manuel Avila Camacho No. 138 Col. Lomas de Chapultepec C.P. 11000 Mexico D.F., MEXICO
Canon Latin America, Inc. Miami 703 Waterford Way Suite 400, Miami, FL, 33126 U.S.A.
Canon Sales Co. Japan 2-16-4, Kohnan, Minato-ku, Tokyo 108-8011, Japan



CANON PHOTOGRAPHIC PRODUCTS
INTERNATIONAL SERVICE NETWORK



キヤノンカメラ国際サービス網

ご購入いただいたキヤノン製品の修理は、下記キヤノン修理相談窓口にてお受けしております。国際保証書（上記Canon International Warranty Systemのシンボルマーク）付の製品は、購入された国や海外でも、®マークの付いた修理窓口にて保証内修理をお受けしております。保証内修理をお受けになる場合は、必ず保証書を提示して下さい。保証書の提示がない場合や保証書に販売店名、購入日がない場合は有料となります。

- 修理内容によっては、部品を特別に注文しなければならず、通常よりも日数がかかる場合もあります。
- 都合により記載内容を変更する場合があります。
- 当リストに無いサービス拠点の問い合わせは各地域の修理窓口へお問い合わせ願います。

Canon Photographic Product International Service Network

Service of your Canon product will be provided at any of the listed authorized service facilities. Warranty service of products with International Warranty certificate (with the symbol ® for Canon International Warranty System indicated above) will be provided at the listed service facilities marked ® in areas other than the country or region where the product was purchased. You must present your warranty certificate when requesting repairs during the warranty period. If no certificate is presented, or if the warranty does not bear the place and date of purchase, you will be charged the cost of the repairs.

Some types of repair may require that parts be ordered specially. In this event, the repairs may take longer than usual.

The contents of this document are subject to change without notice.

CANON 照相机国際服務網

凡列名委託的任何服務單位都能為您的 Canon 佳能產品提供服務的。在購買產品的國家或地區以外的地區而標識有 ® 標記的列名服務單位即能提供附帶有國際保證書（帶有上面所指 Canon 佳能國際保證系統用的標記 ®）的 Canon 佳能產品的保證服務。在保證期間內，當您要送修產品時，一定要出示您的保證書。如不出示保證書，或保證書未記載購買產品的商店和日期時，便須付一切修理費用。

- 某些型式產品的修理可能必須特別訂購零件。因此，可能需要較長的修理期間。
- 本文件內容有所變更時，恕不另行奉告。

CANON 照相機國際服務網

凡列名委託的任何服務單位都能為您的 Canon 佳能產品提供服務的。在購買產品的國家或地區以外的地區而標識有 ® 標記的列名服務單位即能提供附帶有國際保證書（帶有上面所指 Canon 佳能國際保證系統用的標記 ®）的 Canon 佳能產品的保證服務。在保證期間內，當您要送修產品時，一定要出示您的保證書。如不出示保證書，或保證書未記載購買產品的商店和日期時，便須付一切修理費用。

- 某些型式產品的修理可能必須特別訂購零件。因此，可能需要較長的修理期間。
- 本文件內容有所變更時，恕不另行奉告。

(***) — Country & Area Code	
JAPAN	http://www.canon.jp
REGIONAL HEADQUARTERS	® CANON MARKETING JAPAN INC. Phone: (81) 03-3455-9353 *For service center location, please contact the phone number above.
ASIA	http://www.canon-asia.com
HONG KONG	® Canon HongKong Co. Ltd. - Domestic Sales Office 11/F Oterprise Square, 26 Nathan Road, Tsim Sha Tsui Kowloon, Hong Kong
MALAYSIA	® Canon Marketing (Malaysia) Sdn. Bhd. Block D, Perembda Square, Saujana Resort, Section U2, 40150 Shah Alam, Selangor Darul Ehsan Malaysia
PHILIPPINES	® Canon Marketing (Philippines) Inc. Marvin Plaza Building, 2153 Don Chino Rocas Ave. Makati City, Metro Manila
SINGAPORE	® Canon Singapore Pte. Ltd. 1 HarbourFront Avenue #04-01 Keppel Bay Tower Singapore 098632
TAIWAN	® Rainbow Photo & Image Equipment Co. Ltd. No. 20 Chiling Road, Taipei 10424, Taiwan
THAILAND	® Canon Marketing (Thailand) Co.Ltd. 10th Floor, Bangkok City Tower, 179/34-45 South Sathorn Road, Bangkok 10120
UNITED STATES OF AMERICA	http://www.usa.canon.com
REGIONAL HEADQUARTERS	® CANON U.S.A., INC. Phone: 1-800-828-4040 *Within US only *For service center location, please visit our website or contact the phone number above.
CANADA	http://www.canon.ca
REGIONAL HEADQUARTERS	® CANON CANADA INC., Phone: 1-800-828-4040 *Within Canada only *For service center location, please visit our website or contact the phone number above.
CENTRAL & SOUTH AMERICA	http://www.canonlatinamerica.com
REGIONAL HEADQUARTERS (Except Mexico)	® CANON LATIN AMERICA, INC. Phone: 1-305-260-7400 *For service center location, please visit our website or contact the phone number above.
MEXICO	http://www.canon.com.mx
REGIONAL HEADQUARTERS	® CANON MEXICANA, S.DE R.L DE C.V. Manuel Avila Camacho No. 138, PB y pisos 15,16 y 17 Col. Lomas de Chapultepec Delegacion Miguel Hidalgo, C.P. 11000 Mexico, D.F. *For service center location, please contact the phone number above or send an e-mail to: canonmx_soporte@usa.canon.com
EUROPE/MIDDLE EAST/AFRICA	http://www.canon-europe.com
For support please visit: http://www.support.canon-europe.com	
REGIONAL HEADQUARTERS	® CANON EUROPA N.V. P.O. Box 2202, Boventerkerweg 59-61 1180 EG Amstelveen, The Netherlands *For general inquiry only. For repair, please contact one of service center listed below. *Within Local only for non-Country & Area Code No.
AUSTRIA	® Canon Ges.m.b.H http://www.canon.at Phone: 0810-081009
BELGIUM	® Canon Belgium N.V./S.A. http://www.canon.be Phone: 070-300-012
DENMARK	® Canon Denmark http://www.canon.dk Phone: 70-2055-15
FINLAND	® Canon Oy http://www.canon.fi Phone: 020-365-466
FRANCE	® Canon France Regional Competence Center http://www.canon.fr Phone: 0825-002-923
GERMANY	® Canon Germany Regional Competence Center http://www.canon.de Phone: 0180-500-6022
GREECE	® Intersys S.A. http://www.intersys.gr Phone: (30) 0210-355-4000
ICELAND	® Becc ehf. Langholtvegur 84, 104 Reykjavik http://www.canon.ie Phone: (354) 533-3411
IRELAND	® Canon Ireland Ltd. http://www.canon.ie Phone: (353) 01890-200-563
ITALY	® Canon Italy Regional Competence Center http://www.canon.it Phone: 848-800-519
LUXEMBOURG	® Canon Luxembourg S.A. http://www.canon.lu Phone: 27-302-054
THE NETHERLANDS	® Canon Nederland N.V. http://www.canon.nl Phone: 0900-202-2915
NORWAY	® Canon Norge A/S http://www.canon.no Phone: 235-00143
PORTUGAL	® SEQUE S.A. Praca da Alegria, 58-2, 1269-149 Lisboa http://www.3a-servis.si Phone: (351) 021-3242830
SLOVENIA	® 3A AUDIO VIDEO Servis http://www.3a-servis.si Phone: (386) 01-5461000
SPAIN	® Canon Espana, S.A. Joaquin Costa, 41, 28002 Madrid Phone: 901900012

Weitweites Kundendienstnetz für Canon Kameras

Ihr Canon Produkt wird bei jeder der aufgelisteten autorisierten Kundendienststellen gewartet und repariert. Garantieleistungen für Produkte mit der Internationalen Garantiekarte (gekennzeichnet mit dem Symbol ® für das internationale Canon Garantiesystem) erhalten Sie in anderen Gebieten als dem Land oder der Region, wo das Produkt gekauft wurde, bei den in der Liste mit ® gekennzeichneten Kundendienststellen. Wenn Sie das Produkt während der Garantiezeit zur Reparatur geben, müssen Sie Ihre Garantiekarte vorlegen. Wenn Sie keine Garantiekarte vorlegen oder wenn die Garantiekarte nicht den Ort und das Datum des Kaufs trägt, werden Ihnen die Kosten der Reparatur in Rechnung gestellt.

Einige Arten von Reparaturen können die Bestellung spezieller Teile erfordern. In diesem Fall kann die Reparatur länger als normal dauern.

Änderungen des Inhalts dieses Dokuments sind ohne Vorankündigung vorbehalten.

Réseau International des Services Canon Appareil-Photo

Votre appareil Canon pourra être réparé dans un des centres de service après-vente agréés indiqués dans la liste ci-dessous. Il sera réparé sous garantie contre présentation du Certificat de Garantie (avec la marque ® du Système de Garantie Internationale Canon) dans les centres de service après-vente indiqués par la marque ® dans les pays ou régions autres que celui où le produit a été acheté. Vous devrez présenter votre certificat de garantie pour toute demande de réparation pendant la période de validité de la garantie. Toutefois, les réparations seront à vos frais si vous ne présentez pas votre garantie ou si elle ne comporte ni l'adresse du revendeur ni la date d'achat du produit.

Certaines réparations peuvent nécessiter des commandes de pièces spéciales. Dans ce cas, elles peuvent durer plus longtemps que prévu.

Le contenu de ce document peut faire l'objet de modifications sans préavis.

Rete Di Assistenza Internazionale Per Fotocamere Canon

L'assistenza del prodotto Canon acquistato sarà fornita presso uno qualsiasi dei centri di assistenza autorizzati riportati nella lista.

L'assistenza in garanzia di prodotti con certificato di garanzia internazionale (con il simbolo ® del Sistema di Garanzia Internazionale Canon sopra indicato) sarà fornita presso i centri di assistenza riportati nella lista contrassegnati da ® in aree diverse dal paese o dalla regione in cui è stato acquistato il prodotto. È necessario presentare il certificato di garanzia di cui si è in possesso quando si richiedono prestazioni di assistenza durante il periodo di validità della garanzia. Se non si presenta il certificato, o se la garanzia non reca le indicazioni del luogo e della data di acquisto, la riparazione sarà a pagamento.

Alcuni tipi di riparazione può essere necessario ordinare a parte i pezzi di ricambio. In questo caso, la riparazione richiederà più tempo del normale.

Il contenuto di questo documento è soggetto a modifiche senza preavviso.

Sistema Internacional de Servicio de Cámaras Fotográficas Canon

El servicio de su producto Canon será proporcionado por cualquiera de las instalaciones de servicio autorizadas mencionadas en la lista. El servicio de garantía de los productos con certificado de Garantía Internacional (con el símbolo ® del Sistema de Garantía Internacional de Canon indicado arriba) será proporcionado por las instalaciones de servicio que figuran en la lista con la marca ®, en otras áreas distintas del país o de la región donde se adquirió el producto. Cualquier solicitud de reparación durante el periodo de garantía se realizará al presentar el certificado de garantía debidamente llenado incluyendo el lugar y la fecha de compra, en caso de no ser así la reparación será con cargo al cliente.

Algunos tipos de reparaciones podrían requerir un pedido especial de repuestos. En tal caso, las reparaciones podrían demorar más de lo habitual.

Los contenidos de este documento se encuentran sujetos a cambios sin previo aviso.

SWEDEN	® Canon Nordic Regional Competence Center http://www.canon.se Phone: 08-51992369
SWITZERLAND	® Canon Schweiz AG http://www.canon.ch Phone: 0848-833-838
UNITED KINGDOM	® Canon UK Regional Competence Center http://www.canon.co.uk Phone: 08-705-143723
CZECH REP.	® Canon CZ S.R.O. 160 00 Praha 6 Phone: (420) 02-25280-111
HUNGARY	® AWH service Milesosvika 1, 130 00 Praha 3 Phone: (420) 02-2271-525
POLAND	® Camera Kft. Somogyi 1, Bela u. 10, 1085 Budapest Phone: (36) 01-2680805
SLOVAKIA	® Canon Polska SP.Z.O.O. ul. Zytunia 15, 01-014 Warszawa Phone: (48) 022-572-30-00
CYPRUS	® NT. Kakoyiannis/Paroutis Electronics Ltd. Radnikheho 26, 811 07 Bratislava Phone: (421) 02-5441-4880
IRAN	® Aphonar Co. 3045 Limasol Phone: (357) 25-384306
ISRAEL	® Karat Israel Ltd. 127, South Schvreardai Avenue Phone: (98) 021-8752442
SAUDI ARABIA	® AlQurashi Leisure Services P.O. Box 11365/1167, Tehran Phone: (972) 03-6888525
SOUTH AFRICA	® Canon South Africa. P.O. Box 1796, Jeddah 21441 Phone: (966) 02-6970779
NEW ZEALAND	® Canon New Zealand Ltd. Akoranga Business Park, Akoranga Drive Northcote, Auckland, New Zealand Phone: (64) 09-489-0470
NEW ZEALAND	® Canon New Zealand Ltd. Akoranga Business Park, Akoranga Drive Northcote, Auckland, New Zealand Phone: (64) 09-489-0470
NON-IW MEMBERS	*Service facilities listed below are not "International Warranty Members" They do not accept any warranty repair but may assist you when the repair charge is acceptable.
ASIA	• Interhouse Company Phone: (673) 02-653001
BRUNEI	No.5 & 6, Bunut Jaya Complex, Simpang 574, Km 7 1/4, Jalan Tutong, Bandar Seri Begawan 2690, Brunei Darussalam
CAMBODIA	• Royal Cambodia Co., Ltd. 437 Fresh Monivong Boulevard, Phnom Penh, Kingdom of Cambodia Phone: (855) 023-428855
CHINA	• Canon(China)Co., Ltd. 15F Jinbo Building No.89 Jinbo Street, Dongcheng District, Beijing 100005, China Phone: (86) 101-9517-7178
INDIA	• Canon India Pte. Ltd. 2nd Floor, Tower A & B Cyber Greens, DLF Phase III Gurgaon-122 002, Haryana, India Phone: (91)-012-45160000
KOREA	• Canon Korea Consumer Imaging Inc. Canon Support Center 2F Samwhan Artubeu III, 209 Northyun 2 Dong, Kangnam-gu, Seoul Phone: (82) 02-2017-8600
MYANMAR	• Accel International Co., Ltd. Level 6, FJV Commercial Center, 422-426 Strand Road, Botataung, Township, Yangon Phone: (95) 01-202-092
PAKISTAN	• Global Systems 39-C/1, Block-B, P.E.C.H.S Off: Shahrah-e- Faisal, behind Jason Trade Centre, Karachi 75400 Phone: (92) 021-438-9581
SRI LANKA	• Homebase(Pvt.)Limited No.85 Braybrooke Place, Colombo 02, Sri Lanka Phone: (94) 01-1243797
NEPAL	• Primax International Inc. 3rd Floor, Maltri Bhawan, New Road, Kathmandu, Nepal Phone: (977) 01-422-0079
INDONESIA	• PT Datacorp Jl. Angkasa no 18 BD,Jakarta, Indonesia Phone: (62) 021-424-4204
EUROPE / MIDDLE EAST / AFRICA	• Canon Representative Office Kosmodamianskaya nab. 52, Building 3, 5th Floor 113054 Moscow Phone: (7) 095-258600
CIS	• P. Cutajar http://www.pcutajar.com.my Phone: (356) 448466
MALTA	• Naser Mohammed, Al Sayr Comm.Co. P.O. Box 974 Safat 13008 Phone: (965) 2-44810315
KUWAIT	• GENETCO P.O. Box 3139, Ruwi 112 Phone: (969) 706153
OMAN	• Khory Electronics P.O.Box 284 Dubai Phone: (971) 04-3524168
LEBANON	• Image System sal 460 Corniche Al-Nahr, Beirut Phone: (961) 01-582-000
ESTONIA	• AS KTK Overall http://www.canon.ee Phone: (372) 530-0530
LATVIA	• Canon North-East Oy http://www.canon.lv Phone: (371) 720-4444
LITHUANIA	• Canon North-East Oy http://www.canon.lt Phone: (370) 8700-555-78